

IN THE CLAIMS

1. (currently amended) A color projection system, comprising:

a lamp;

at least one diffraction grating configured to diffract light from the lamp into a diffracted beam; and

an LC microdisplay panel configured to ~~modulate~~ receive the diffracted beam from the diffraction grating, wherein by moving the at least one diffraction grating with respect to the light from the lamp, the diffracted beam received by the LC microdisplay sequentially comprises a diffracted red beam, a diffracted blue beam, and a diffracted green beam, the LC microdisplay panel being configured to sequentially modulate the diffracted red beam into a red sub-frame of an image, the diffracted green beam into a green sub-frame of the image, and the diffracted blue beam into a blue sub-frame of the image sequentially comprises a red, a green, and a blue beam.

2. (original) The color projection system of claim 1, further comprising:

a motor to move the at least one diffraction grating with respect to the light from the lamp.

3. (original) The color projection system of claim 2, wherein the motor is configured to move the diffraction grating by rocking the diffraction grating through an angular range.

BEST AVAILABLE COPY

4. (original) The color projection system of claim 1, wherein the at least one diffraction grating comprises three diffraction gratings, each diffraction grating being configured to diffract a different color selected from the group of red, green, and blue.

5. (original) The color projection system of claim 1, wherein the at least one diffraction grating is a reflection grating.

6. (original) The color projection system of claim 1, wherein the at least one diffraction grating is a transmission grating.

7. (original) The color projection system of claim 1, wherein the LC microdisplay panel is a reflective LC microdisplay panel.

8. (original) The color projection system of claim 1, wherein the LC panel is a transmissive LC microdisplay panel.

Claims 9 – 16. (cancelled)

17. (currently amended) A method of color projection comprising:

providing a light beam incident on at least one diffraction grating;

moving the at least one diffraction grating with respect to the incident light beam,

wherein the movement of the diffraction grating is such that a diffracted light beam from the at least one diffraction grating sequentially comprises a diffracted red beam, a

diffracted green beam, and a diffracted blue light beam, wherein each diffracted beam is projected onto an LC microdisplay panel, and

sequentially modulating the diffracted red beam received by the LC microdisplay panel to form a red sub-frame of an image, modulating the diffracted green beam received by the LC microdisplay panel to form a green sub-frame of the image, and modulating the diffracted blue beam received by the LC microdisplay panel to form a blue sub-frame of the image modulating the sequentially-provided red, green and blue light received by the LC microdisplay panel to project an image onto a screen.

18. (original) The method of claim 17, wherein the movement of the at least one diffraction grating comprises rocking the at least one diffraction grating through an angular range.

19. (currently amended) The method of claim 17, wherein the providing act comprises providing a light beam incident on ~~at least~~ one of three diffraction gratings, each diffraction grating being configured to diffract a different color selected from the group consisting of green, blue, and red, and wherein the moving act comprises moving the three diffraction gratings with respect to the incident light beam such that each diffraction grating will sequentially diffract the incident light beam into its selected color.

Claims 20 – 21. (cancelled)

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.